



VPL-VW80

BRAVIA 1080p HD High Frame Rate SXRD Home Cinema projector. Contrast ratio 60,000:1, BRAVIA ENGINE 2, Motionflow Dark Frame Insertion.

Advanced Technical Features for Ultra-Smooth Action

The BRAVIA VPL-VW80 SXRD projector is designed to be the next logical step for the serious Home Cinema enthusiast with a screen size up to 300"/7.6m. At its heart lies Sony's SXRD (Silicon X-tal Reflective Display) panel technology that delivers exquisitely fine-grained 1080p Full HD for a truly cinematic experience. The special High Frame Rate SXRD panels and exclusive Motionflow Dark Frame Insertion system double the frame rate to 100Hz for fluid, natural movement no matter how fast the action gets. Eight-stage real-time signal processing by Sony's BRAVIA ENGINE 2 ensures outstanding colour and visibly superior overall image quality.

Features

Sony Original High Frame Rate SXRD Panels

The core of the BRAVIA VPL-VW80 is its High Frame Rate triple SXRD™ panel array which can operate at 100 fps - double the norm - for exceptionally smooth on-screen action. Read more details on SXRD in the benefit section.

Crisp, Smooth Action with Motionflow Dark Frame Insertion

The projector uses Motionflow Dark Frame Insertion to deliver on the potential offered by the High Frame rate SXRD panels. Motionflow itself works by creating intermediate frames from the original video source and inserting them to double the number of images displayed every second. The unprecedented level of accuracy with which this is done ensures that what you see on the screen is a seamless, perfectly crisp and smoothly moving image.

Dark Frame Insertion enhances the effect of Motionflow. The optional insertion of darkened frames heightens the contrast and eliminates any judder - the jerky picture that

can occur when the camera pans - by allowing the eye 'space' to blend one frame into the next. This action mimics that of actual movie projection and functions best in the darkened environment of a Home Cinema.

Digital Picture Processing - BRAVIA ENGINE 2

The unique BRAVIA ENGINE 2 delivers vibrant colours and exceptional image quality. Its eight separate stages of image enhancement - carried out in real time - each has a specialised function. Together they generate a picture that is optimised in every way, from the accuracy of the contrast to the precision of the colour reproduction.

Superb Contrast Ratio with Advanced Iris 2

The Advanced Iris 2 contrast enhancement works like the human eye, responding dynamically to the level of light in each scene, always selecting the optimum contrast. With a very high range of 60,000:1 (the difference between dead black and pure white), Advanced Iris 2 can bring out the detail in darker sequences and prevent bright scenes from looking washed out.

High Resolution All Range Crisp Focus (ARC-F) Lens

The VPL-VW80 is equipped with the All Range Crisp Focus (ARC-F) lens which has the necessary superior resolution and focus characteristics. The lens offers a 1.6x motorised zoom and both vertical (65%) and horizontal (25%) Lens Shift adjustment, making it easy to set the projector up and achieve a good picture in a variety of environments. To keep the lens in perfect condition it has a motorised cover which automatically opens when the power is turned on, and closes again at power-down.

Advanced Colour Enhancement Features

Something else that brings the VPL-VW80 closer to the capabilities of the human eye is its support for x.v.Colour. x.v.Colour is based on xvYCC, a new international standard for video that defines a colour space nearly two times

wider than the existing sRGB standard, making x.v.Colour literally more lifelike. Deep Colour™ boosts the number of colours available within the xvYCC colour space from millions to billions, further future-proofing the projector against developments in colour handling technology.

In the event that you do need to adjust screen colours, the perfect tool for the job is provided by Real Colour Processing. This allows you to adjust the hue of a specific colour without changing the whole image. So if something like skin tone needs tweaking, you can do it without altering the colour of the sky or the background of the scene.

Great Connectivity - 24p True Cinema and Dual Trigger Out

The inclusion of twin connectors with HDMI™ technology opens up another dimension for the VPL-VW80. It makes it possible to connect to video sources like Blu-ray Disc™ players which offer exact, 24 frame-per-second replication of the cinematic original. As the projector has the '24p True Cinema' function, it can display films exactly as they were first recorded. HDMI CEC technology also allows control of multiple devices from a single remote in a process called BRAVIA Theatre Sync. One Touch Play lets you insert a disc and press Play, at which point the whole Home Theatre system, including the projector, powers up automatically and the film starts. Conversely, System Stand-By shuts down all HDMI-connected elements of the system at a single press of the Power/Standby button on the remote. The VPL-VW80 comes also with two Trigger Out terminals, one of the two Trigger Out terminals handles Anamorphic Zoom mode; the other is for power.

Silent Operation

Apart from bright lights, something else that can degrade the Home Cinema experience is noise from the projector itself. With this fully in mind, the VPL-VW80 has an even further optimized airflow thanks to its unique design bringing fan noise down to 20dB.

Benefits

Advantages of Sony High Frame Rate SXRD panels

1080p Full HD resolution of 1920 x 1080

Three panels -red, green and blue, ensuring optimum colour reproduction and resulting in over 6.2 million pixels, more than double the pixel count of 720p projectors. All in a panel size of 0.61-inch thanks to its super-fine panel micro-architecture with a pixel size of 7Um.

Designed with fast-action movies/games in mind

The 2.5ms response time makes a further contribution to the overall impression of fluid, natural movement essential for a convincing recreation of the cinematic experience. When compared to the 8 millisecond response time of a conventional LCD television, you begin to get a sense of just how fast SXRD panels really are.

Film-like reproduction of 35mm film

SXRD provides film-quality smoothness by minimizing the space between pixels (0.25um) for smooth and dot-less pictures. Thanks to this authentically breathtaking picture from High-Definition signal sources are reproduced. Even image sequence can be enjoyed free of the 'chicken-wire' effect.

Double Speed Processing

The special High Frame Rate SXRD panels. can operate at 100 fps - double the norm - for exceptionally smooth on-screen action

Unique Algorithm of Motionflow Dark Frame Insertion

To bring the thrill of watching fast-paced, cinematic action to your home, the VPL-VW80 features a technology called Motionflow Dark Frame Insertion which makes motion much smoother through a method -in combination with High Frame Rate SXRD panels- called Double Speed Processing. This innovative process creates and inserts artificial frames, first comparing key visual factors on successive frames - for example the position of a car hubcap - then calculating the split second of 'missing' action in the sequence. Although other technologies also insert frames in a similar way, Motionflow Dark Frame Insertion uses a unique algorithm that can take into account more visual factors from the existing frames - so the new frame is much more accurate. The optional insertion of darkened frames heightens the contrast and eliminates any judder - the jerky picture that can occur when the camera pans - by allowing the eye to naturally blend one frame into the next. This action mimics that of actual movie projection and functions best in a completely dark environment. You'll experience movies and sports with a greater sense of realism than ever before.

Panel Alignment Function

To ensure the perfect image, the VPL-VW80 comes with screen panel alignment function, allowing you to eliminate any coloured bordering at the edges of objects. This function compensates gaps in panel alignment. It is possible to select R (Red) or B (Blue) to make adjustments based on G (Green), and to adjust the horizontal and vertical direction by shifting the full image of each colour, moving the full screen ± 2.0 dot by 0.1. Besides Panel Shift alignment the VW80 offers also Panel Zone Alignment; define

one zone out of 16x9 points across the screen and adjust ± 2.0 dot by 0.1.

Gamma Adjustment Application Software - Image Director 3

The VPL-VW80 works with "Image Director3" via the RS232C terminal. Image Director 3 comes on a CD-ROM. This application software is suitable for fine gamma adjustments. With Image Director 3 on your PC, it is possible to adjust the gamma curve more easily and accurately thanks to the new zooming function, and you can choose a mode from Fine or Coarse to suite your taste.

Anamorphic Zoom Mode

Home Cinema enthusiasts in search of perfection will no doubt be drawn to the Anamorphic Zoom function. This uses sophisticated signal processing of widescreen modes together with an optional third-party anamorphic lens to recreate the immersive 2.35:1 CinemaScope aspect ratio normally only seen in the cinema.

Easy to use & Future-proof

The VPL-VW80 is easy in use and set-up. All features offer a range of user-settings which easily can be controlled

with the supplied illuminated remote control via the on-screen menu. To name just one - Advanced Iris 2 has four settings; Auto 1, Auto 2, Manual and Off. SXRD™, BRAVIA ENGINE 2 (used in BRAVIA LCD televisions), x.v.Colour and Deep Colour™ future-proof the VPL-VW80 even further.

Service & Support

The VPL-VW80 comes with 3-year support that offers more than a standard warranty. With PrimeSupport®, you have the following valuable benefits:

- Telephone Helpdesk;
- Free phone
- Multilingual (English, German, French, Italian, Spanish)
- Mon - Fri 09:00-18:00 CET
- Provide advice on functionality and act as the first point of contact for service requests.

In the unlikely event of the VPL-VW80 failing, we arrange repair of your own unit. All shipping costs to and from your chosen location will be covered by Sony. If the repair takes longer than 10 working days, a loan unit will be offered.

Qualified Sony engineers will maintain your projector giving you peace of mind that there will be no unexpected bills while your VPL-VW80 is covered by PrimeSupport.

Technical Specifications

Optical

Panel Resolution	1080p Full HD, 1920 x 1080
Panel Technology / Panel Size / Nr of Pixels	Sony SXRD / 0.61-inch / 6,220,800 (2,073,600 x 3) Pixels
Panel Pixel Size / Inter-pixel spacing / Panel Response Time	7µm / 0.25µm / 2,5ms
Contrast Ratio Advanced Iris 2	60,000:1
Brightness	800 ANSI Lumen
Lens type	All Range Crisp Focus (ARC-F) Lens
Lens Zoom Ratio, F/f	x1.6 Motorised Zoom, 2.50 - 3.44 / 18.5 - 29.6mm
Lens Shift	Vertical 65%, Horizontal 25%
Lamp Type	200W UHP, LMP-H201

Inputs

HDMI (19-pin connector)	2 (CEC)
Component Video (3x RCA connectors)	1
S-Video (Mini DIN 4-pin)	1
Composite Video (RCA connector)	1
Input A (HD D-sub 15-pin)	1 (Analogue RGB, Component)

Output

Trigger Out (Mini Jack)	2 (Power, Anamorphic Zoom Mode)
Control RS-232C (D-sub 9-pin)	1 (AMX Protocol Supported)

General

Fan Noise	20dB
Lamp Life	3,000 Hours(Replacement time)
Filter Cleaning Time	Every 1,500 Hours

Power Consumption: Max / Standby / Low	320W / 8W / 0.5W
Dimensions (W x H x D)	470 x 179.2 x 482.4 mm
Weight	12kg
Body Colour	Midnight Sky Black

Throwing Distance, 16:9 Screen, Ceiling Mount

Min - Max Screen Size (diagonally)	40 - 300-inch / 1 - 7.6m
40-inch / 1m screen	1.4 - 2.0m
80-inch / 2m screen	2.6 - 3.9m
100-inch / 2.5m screen	3.3 - 4.8m
120-inch / 3.0m screen	3.9 - 5.8m
200-inch / 5.1m screen	6.4 - 9.5m
300-inch / 7.6m screen	9.5 - 14.3m

Acceptable Video Signals:

720p	720/60p, 720/50p
1080i	1080/60i, 1080/50i, 1080/24PsF (48i)
1080p via HDMI	1080/60p, 1080/50p, 1080/24p
Acceptable Computer Signals	fH: 19-72 kHz, fV: 48-92 Hz Max Resolution 1920 x 1080 (HDMI only)